

CALIBRATION RESULT

1. Sound pressure level (with reference standard microphone)

| Measured value | Expanded uncertainty *1 |
|----------------|-------------------------|
| 94.25 dB | 0.09 dB |

Specified secondary standard microphone:

Type : 0000

Serial number : 0000000

Reference Sound pressure : 2×10^{-5} Pa

2. Sound pressure level (with reference load volume*2)

For calibration, the referred measured value (Sound pressure level(with reference load volume)) should be used. (See “INSTRUCTION MANUAL” of NC-74)

| Measured value | Expanded uncertainty *1 |
|----------------|-------------------------|
| 94.00 dB | 0.10 dB |

Reference load volume *2: 1025 mm³

Reference Sound pressure : 2×10^{-5} Pa

*1 Defines an interval estimated to have a level of confidence of approximately 95 %.

Coverage factor $k=2$

*2 Effective load volume of microphone at reference condition of NC-74

(Equivalent to the effective load volume of the types of UC-27 and UC-53A (using with 1/2-inch adapter NC-74-002))

Calibration result is the calibration value in ambient conditions during calibration.

Important:

The sound pressure level of the sound generated by NC-74 depends on the effective load volume of the microphone.(See “INSTRUCTION MANUAL” of NC-74)

BE OUT OF JCSS CALIBRATION

1. Frequency

| Measured value | Measurement uncertainty ($k=2$) |
|----------------|--------------------------------------|
| 1000.0 Hz | 8.9×10^{-4} Hz |

Working measurement standard universal counter:

Type : 000000
Serial number : 0000000000
(JCSS Calibration Certificate No. 0000000000000000)

2. Total distortion

| Measured value |
|----------------|
| 1.0 % |

Working measurement standard distortion meter:

Type : 000000
Serial number : 0000000000
(A2LA Calibration Certificate No. 0000000000)

- closing -

NOTES

For different types of the microphones, actual sound pressure level of the sound L_a (dB) shall be calculated as the following equation.

$$L_a = L_{rlv} + C$$

Where L_{rlv} : Sound pressure level with reference load volume indicated in clause 2 (dB)

C : Compensation value for microphone type indicated in Table 1 (dB)

Table 1 Compensation value of sound pressure level
for different types of microphone (typical value)

| Type | | Compensation value (dB) |
|--|----------------------------------|----------------------------|
| 1-inch microphones | | |
| RION | UC-11 (with protective grid) | 0.00 |
| | UC-27 (with protective grid) | 0.00 |
| | UC-25 (with protective grid) | -0.09 |
| | UC-34 (with protective grid) | -0.13 |
| Brüel & Kjær | 4160(without protective grid) | +0.25 |
| TOKYO RIKO | MR-103(without protective grid) | +0.26 |
| 1/2-inch microphones using with 1/2-inch adapter NC-74-002 | | |
| RION | UC-26 (with protective grid) | -0.09 |
| | UC-30 (with protective grid) | -0.02 |
| | UC-31 (with protective grid) | +0.04 |
| | UC-33P (with protective grid) | +0.03 |
| | UC-52 (with protective grid) | +0.10 |
| | UC-53A (with protective grid) | 0.00 |
| | UC-57 (with protective grid) | +0.05 |
| | UC-59 (with protective grid) | +0.02 |
| | MS-10 (with protective grid) | -0.01 |
| Brüel & Kjær | 4180 (without protective grid) | +0.16 |